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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,254	02/27/2004	Rainer Hannbeck Von Hanwehr	095309.53202US	1324
23911	7590 10/06/2005		EXAM	INER
CROWELL & MORING LLP			SOLIS, ERICK R	
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20044-4300		3747		

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summany	10/787,254	HANNBECK VON HANWEHR E
Office Action Summary	Examiner	Art Unit
	Erick R. Solis	3747
The MAILING DATE of this communicated period for Reply	ation appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIN - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communing If NO period for reply is specified above, the maximum statuting a reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUNI 37 CFR 1.136(a). In no event, however, may a lication. tory period will apply and will expire SIX (6) MON II, by statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status	•	
1) Responsive to communication(s) filed	on .	
• •)⊠ This action is non-final.	
3) Since this application is in condition fo	· —	ters, prosecution as to the merits is
closed in accordance with the practice		
Disposition of Claims		
4)⊠ Claim(s) <u>1-22</u> is/are pending in the ap	olication	
4a) Of the above claim(s) is/are		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-22</u> is/are rejected.		
7) Claim(s) is/are objected to.	•	
8) Claim(s) are subject to restriction	on and/or election requirement.	
Application Papers		
9) The specification is objected to by the	Examiner.	
10) The drawing(s) filed on is/are: a		by the Examiner.
Applicant may not request that any objection	on to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the	ne correction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to b	by the Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim fo a)⊠ All b)□ Some * c)□ None of:	r foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
1.⊠ Certified copies of the priority do	ocuments have been received.	
2. Certified copies of the priority do	ocuments have been received in A	Application No
	the priority decuments have been	received in this National Stage
3. Copies of the certified copies of	the phonty documents have been	
3. Copies of the certified copies of application from the International	•	

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date ___

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)

6) Other: ____.

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1,2,13,14,16,20 are rejected under 35 U.S.C. 102(b) as being anticipated by Atanasyan (US Pat. No. 6293260). See col. 4, lines 14-40.
- 3. Claims 1,2,13,14 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Bidner et al (US Pat. Applic. Pub. No. 2004/0162666). See claim 12.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 6. Claims 3-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atanasyan in view of Esteghlal. Atanasyan applies as above, but does not teach switching away from lean operation when carrying out an air-fuel ratio adaptation process. Esteghlal teaches switching from lean to homogeneous mode when carrying out an air-fuel ratio adaptation process. It would have been obvious to one of ordinary skill in the art to have included a subroutine as taught by Esteghlal in Atanasyan's engine since this would have allowed for better control of the air-fuel ratio. Furthermore, regarding claim 11, basing the regeneration at least in part based on elapsed time since the last regeneration is well known as pointed out in applicant's own specification (see applicant's specification, last 3 lines of paragraph 4). It would have been obvious to one of ordinary skill in the art to have included the feature of basing regeneration at least partly on elapsed time since the last regeneration since this would have provided for an equivalent alternate way of determining when to regenerate.
- 7. Claim 15 and 17-22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atanasyan in view of applicant's admitted prior art. Atanasyan applies as above, but teaches carrying out the regeneration based on degree of saturation, not based on time since last

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regeneration. Basing the regeneration at least in part based on elapsed time since the last regeneration is well known as pointed out in applicant's own specification (see applicant's specification, last 3 lines of paragraph 4). It would have been obvious to one of ordinary skill in the art to have included the feature of basing regeneration at least partly on elapsed time since the last regeneration since this would have provided for an equivalent alternate way of determining when to regenerate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick R Solis whose telephone number is (571) 272-4853. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-3700.

Erick R Solis
Primary Examiner
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